

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/978,636DATE: 11/08/98
TIME: 17:42:48

INPUT SET: S29661.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information
4
5 (i) APPLICANT: ELAZAR RABBANI
6 JANNIS G. STAVRIANOPOULOS
7 JAMES J. DONEGAN
8 DAKAI LIU
9 NORMAN E. KELKER
10 DEAN L. ENGELHARDT
11
12 (ii) TITLE OF INVENTION: NOVEL PROPERTY EFFECTING
13 AND/OR PROPERTY EXHIBITING COMPOSITIONS FOR
14 THERAPEUTIC AND DIAGNOSTIC USE
15
16 (iii) NUMBER OF SEQUENCES: 42
17
18 (iv) CORRESPONDENCE ADDRESS:
19 (A) ADDRESSEE: ENZO THERAPEUTICS, INC.
20 (B) STREET: C/O ENZO BIOCHEM, INC.
21 527 MADISON AVENUE,
22 9TH FLOOR
23 (C) CITY: NEW YORK
24 (D) STATE: NY
25 (E) COUNTRY: USA
26 (F) ZIP: 10022
27
28 (v) COMPUTER READABLE FORM:
29 (A) MEDIUM TYPE: 3.5" Micro Floppy Disk. 1.44 KB
30 STORAGE
31 (B) COMPUTER: IBM PC/XT/AT, IBM PS/2 OR COMPATIBLES
32 (C) OPERATING SYSTEM: PC-DOS
33 (D) SOFTWARE: MICROSOFT WORD ____ - ASCII TEXT (DOS)
34
35 (vi) CURRENT APPLICATION DATA:
36 (A) APPLICATION NUMBER: US 08/978,636
37 (B) FILING DATE: 25-NOVEMBER-1997
38 (C) CLASSIFICATION: Not Yet Known
39
40 (viii) ATTORNEY/AGENT INFORMATION:
41 (A) NAME: FEDUS, RONALD C.
42 (B) REGISTRATION NUMBER: 32,567
43 (C) REFERENCE/DOCKET NUMBER: ENZ-53(D3)
44
45 (ix) TELECOMMUNICATION INFORMATION:
46 (A) TELEPHONE: (212) 583-0100

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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/978,636DATE: 11/08/98
TIME: 17:42:50

INPUT SET: S29661.raw

47 (B)TELEFAX:(212) 583-0150
48
49 (2) INFORMATION FOR SEQ ID NO:1:
50
51 (i) SEQUENCE CHARACTERISTICS:
52 (A) LENGTH:20 amino acids
53 (B) TYPE:amino acid
54 (C) STRANDEDNESS:single
55 (D) TOPOLOGY:linear
56
57 (ii) MOLECULE TYPE: peptide
58
59 (iii) HYPOTHETICAL: NO
60
61 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:1:
62 Gly Phe Phe Gly Ala Ile Ala Gly Phe Leu Glu Gly Gly Trp Glu Gly
63 1 10
64
65 Met Ile Ala Gly
66 20
67
68
69
70 (2) INFORMATION FOR SEQ ID NO:2:
71
72 (i) SEQUENCE CHARACTERISTICS:
73 (A) LENGTH:20 base pairs
74 (B) TYPE:nucleic acid
75 (C) STRANDEDNESS:double
76 (D) TOPOLOGY:linear
77
78 (ii) MOLECULE TYPE: DNA (genomic)
79
80 (iii) HYPOTHETICAL: NO
81
82 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:2:
83 TGCTCTCTAA GGGTCTACTC 20
84
85
86
87 (2) INFORMATION FOR SEQ ID NO:3:
88
89 (i) SEQUENCE CHARACTERISTICS:
90 (A) LENGTH:15 base pairs
91 (B) TYPE:nucleic acid
92 (C) STRANDEDNESS:double
93 (D) TOPOLOGY:linear
94
95 (ii) MOLECULE TYPE: DNA (genomic)
96
97 (iii) HYPOTHETICAL: NO
98
99 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:3:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/978,636DATE: 11/08/98
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INPUT SET: S29661.raw

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100
101 CTCTAAGGTA AATAT 15
102
103
104 (2) INFORMATION FOR SEQ ID NO:4:
105
106 (i) SEQUENCE CHARACTERISTICS:
107 (A) LENGTH:16 base pairs
108 (B) TYPE:nucleic acid
109 (C) STRANDEDNESS:double
110 (D) TOPOLOGY:linear
111
112 (ii) MOLECULE TYPE: DNA (genomic)
113
114 (iii) HYPOTHETICAL: NO
115
116 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:4:
117
118 TGTATTTTAG ATTCAA 16
119
120
121 (2) INFORMATION FOR SEQ ID NO:5:
122
123 (i) SEQUENCE CHARACTERISTICS:
124 (A) LENGTH:19 base pairs
125 (B) TYPE:nucleic acid
126 (C) STRANDEDNESS:double
127 (D) TOPOLOGY:linear
128
129 (ii) MOLECULE TYPE: DNA (genomic)
130
131 (iii) HYPOTHETICAL: YES
132
133 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:5:
134
135 TGCTCTCTAA GGTAAATAT 19
136
137
138 (2) INFORMATION FOR SEQ ID NO:6:
139
140 (i) SEQUENCE CHARACTERISTICS:
141 (A) LENGTH:19 base pairs
142 (B) TYPE:nucleic acid
143 (C) STRANDEDNESS:double
144 (D) TOPOLOGY:linear
145
146 (ii) MOLECULE TYPE: DNA (genomic)
147
148 (iii) HYPOTHETICAL: YES
149
150 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:6:
151
152 TGTATTTTAG GGTCTACTC 19
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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/978,636DATE: 11/08/98
TIME: 17:42:53

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153
154 (2) INFORMATION FOR SEQ ID NO:7:
155
156 (i) SEQUENCE CHARACTERISTICS:
157 (A) LENGTH:19 base pairs
158 (B) TYPE:nucleic acid
159 (C) STRANDEDNESS:single
160 (D) TOPOLOGY:linear
161
162 (ii) MOLECULE TYPE: mRNA
163
164 (iii) HYPOTHETICAL: YES
165
166 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:7:
167
168 UGCUCUCUAA GGUAAUAU 19
169
170
171 (2) INFORMATION FOR SEQ ID NO:8:
172
173 (i) SEQUENCE CHARACTERISTICS:
174 (A) LENGTH:19 base pairs
175 (B) TYPE:nucleic acid
176 (C) STRANDEDNESS:single
177 (D) TOPOLOGY:linear
178
179 (ii) MOLECULE TYPE: mRNA
180
181 (iii) HYPOTHETICAL: YES
182
183 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:8:
184
185 UGUUUUUUAG GGUCUACUC 19
186
187
188 (2) INFORMATION FOR SEQ ID NO:9:
189
190 (i) SEQUENCE CHARACTERISTICS:
191 (A) LENGTH:20 base pairs
192 (B) TYPE:nucleic acid
193 (C) STRANDEDNESS:single
194 (D) TOPOLOGY:linear
195
196 (ii) MOLECULE TYPE: mRNA
197
198 (iii) HYPOTHETICAL: YES
199
200 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:9:
201
202 UGCUCUCUAA GGGUCUACUC 20
203
204
205 (2) INFORMATION FOR SEQ ID NO:10:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/978,636DATE: 11/08/98
TIME: 17:42:55

INPUT SET: S29661.raw

206
207 (i) SEQUENCE CHARACTERISTICS:
208 (A) LENGTH:49 base pairs
209 (B) TYPE:nucleic acid
210 (C) STRANDEDNESS:single
211 (D) TOPOLOGY:linear
212
213 (ii) MOLECULE TYPE: other nucleic acid
214 (A) DESCRIPTION: /desc = "oligonucleotide"
215
216 (iii) HYPOTHETICAL: YES
217
218 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:10:
219 GGAATTCGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGC 49
220
221
222
223 (2) INFORMATION FOR SEQ ID NO:11:
224
225 (i) SEQUENCE CHARACTERISTICS:
226 (A) LENGTH:55 base pairs
227 (B) TYPE:nucleic acid
228 (C) STRANDEDNESS:single
229 (D) TOPOLOGY:linear
230
231 (ii) MOLECULE TYPE: other nucleic acid
232 (A) DESCRIPTION: /desc = "oligonucleotide"
233
234 (iii) HYPOTHETICAL: YES
235
236 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:11:
237 GACTAGTTGG TCTCGTCTCT TTTTGGAGG AGTGTCGTTC TTAGCGATGT TAATC 55
238
239
240
241 (2) INFORMATION FOR SEQ ID NO:12:
242
243 (i) SEQUENCE CHARACTERISTICS:
244 (A) LENGTH:46 base pairs
245 (B) TYPE:nucleic acid
246 (C) STRANDEDNESS:single
247 (D) TOPOLOGY:linear
248
249 (ii) MOLECULE TYPE: other nucleic acid
250 (A) DESCRIPTION: /desc = "oligonucleotide"
251
252 (iii) HYPOTHETICAL: YES
253
254 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:12:
255 GGAATTCGTC TCGGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC 46
256
257
258

***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

814 (2) INFORMATION FOR SEQ ID NO:42:

815

816 (i) SEQUENCE CHARACTERISTICS:

817 (A) LENGTH:67 base pairs

818 (B) TYPE:nucleic acid

819 (C) STRANDEDNESS:single

820 (D) TOPOLOGY:linear

821

822 (ii) MOLECULE TYPE: other nucleic acid

823 (A) DESCRIPTION: /desc = "oligonucleotide"

824

825 (iii) HYPOTHETICAL: YES

826

827 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:42:

828

829 CCGGATAATA CGACTCACTA TAGGGCGAGC TCGGTACCCG GGTCTAGAGT CGACCTGCAG 60

830

831 GCATGCT 67

832

833

834

835

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/08/978,636*

DATE: 11/08/98
TIME: 17:42:58

INPUT SET: S29661.raw

Original Text

(C)CLASSIFICATION:Not Yet Known

| Line | Error |
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| 38 | Wrong Classification |

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SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/08/978,636

DATE: 11/08/98
TIME: 17:42:58

INPUT SET: S29661.raw

APPLICATION NUMBER
FILING DATE
PRIOR APPLICATION DATA

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/08/978,636DATE: 11/08/98
TIME: 17:42:58

INPUT SET: S29661.raw

Corrected Text

| Line | Original Text | Corrected Text |
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| 70 | (3) INFORMATION FOR SEQ ID NO: 2: | (2) INFORMATION FOR SEQ ID NO:2: |
| 87 | (4) INFORMATION FOR SEQ ID NO: 3: | (2) INFORMATION FOR SEQ ID NO:3: |
| 104 | (5) INFORMATION FOR SEQ ID NO: 4: | (2) INFORMATION FOR SEQ ID NO:4: |
| 121 | (6) INFORMATION FOR SEQ ID NO: 5: | (2) INFORMATION FOR SEQ ID NO:5: |
| 138 | (7) INFORMATION FOR SEQ ID NO: 6: | (2) INFORMATION FOR SEQ ID NO:6: |
| 154 | (8) INFORMATION FOR SEQ ID NO: 7: | (2) INFORMATION FOR SEQ ID NO:7: |
| 171 | (9) INFORMATION FOR SEQ ID NO: 8: | (2) INFORMATION FOR SEQ ID NO:8: |
| 188 | (10) INFORMATION FOR SEQ ID NO: 9: | (2) INFORMATION FOR SEQ ID NO:9: |
| 205 | (11) INFORMATION FOR SEQ ID NO: 10: | (2) INFORMATION FOR SEQ ID NO:10: |
| 223 | (12) INFORMATION FOR SEQ ID NO: 11: | (2) INFORMATION FOR SEQ ID NO:11: |
| 241 | (13) INFORMATION FOR SEQ ID NO: 12: | (2) INFORMATION FOR SEQ ID NO:12: |
| 259 | (14) INFORMATION FOR SEQ ID NO: 13: | (2) INFORMATION FOR SEQ ID NO:13: |
| 277 | (15) INFORMATION FOR SEQ ID NO: 14: | (2) INFORMATION FOR SEQ ID NO:14: |
| 295 | (16) INFORMATION FOR SEQ ID NO: 15: | (2) INFORMATION FOR SEQ ID NO:15: |
| 312 | (17) INFORMATION FOR SEQ ID NO: 16: | (2) INFORMATION FOR SEQ ID NO:16: |
| 330 | (18) INFORMATION FOR SEQ ID NO: 17: | (2) INFORMATION FOR SEQ ID NO:17: |
| 348 | (19) INFORMATION FOR SEQ ID NO: 18: | (2) INFORMATION FOR SEQ ID NO:18: |
| 367 | (20) INFORMATION FOR SEQ ID NO: 19: | (2) INFORMATION FOR SEQ ID NO:19: |
| 384 | (21) INFORMATION FOR SEQ ID NO: 20: | (2) INFORMATION FOR SEQ ID NO:20: |
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| 420 | (23) INFORMATION FOR SEQ ID NO: 22: | (2) INFORMATION FOR SEQ ID NO:22: |
| 439 | (24) INFORMATION FOR SEQ ID NO: 23: | (2) INFORMATION FOR SEQ ID NO:23: |
| 459 | (25) INFORMATION FOR SEQ ID NO: 24: | (2) INFORMATION FOR SEQ ID NO:24: |
| 479 | (26) INFORMATION FOR SEQ ID NO: 25: | (2) INFORMATION FOR SEQ ID NO:25: |
| 499 | (27) INFORMATION FOR SEQ ID NO: 26: | (2) INFORMATION FOR SEQ ID NO:26: |
| 519 | (28) INFORMATION FOR SEQ ID NO: 27: | (2) INFORMATION FOR SEQ ID NO:27: |
| 539 | (29) INFORMATION FOR SEQ ID NO: 28: | (2) INFORMATION FOR SEQ ID NO:28: |
| 559 | (30) INFORMATION FOR SEQ ID NO: 29: | (2) INFORMATION FOR SEQ ID NO:29: |
| 580 | (31) INFORMATION FOR SEQ ID NO: 30: | (2) INFORMATION FOR SEQ ID NO:30: |
| 598 | (32) INFORMATION FOR SEQ ID NO: 31: | (2) INFORMATION FOR SEQ ID NO:31: |
| 618 | (33) INFORMATION FOR SEQ ID NO: 32: | (2) INFORMATION FOR SEQ ID NO:32: |
| 638 | (34) INFORMATION FOR SEQ ID NO: 33: | (2) INFORMATION FOR SEQ ID NO:33: |
| 656 | (35) INFORMATION FOR SEQ ID NO: 34: | (2) INFORMATION FOR SEQ ID NO:34: |
| 674 | (36) INFORMATION FOR SEQ ID NO: 35: | (2) INFORMATION FOR SEQ ID NO:35: |
| 694 | (37) INFORMATION FOR SEQ ID NO: 36: | (2) INFORMATION FOR SEQ ID NO:36: |
| 714 | (38) INFORMATION FOR SEQ ID NO: 37: | (2) INFORMATION FOR SEQ ID NO:37: |
| 734 | (39) INFORMATION FOR SEQ ID NO: 38: | (2) INFORMATION FOR SEQ ID NO:38: |
| 754 | (40) INFORMATION FOR SEQ ID NO: 39: | (2) INFORMATION FOR SEQ ID NO:39: |
| 774 | (41) INFORMATION FOR SEQ ID NO: 40: | (2) INFORMATION FOR SEQ ID NO:40: |
| 794 | (42) INFORMATION FOR SEQ ID NO: 41: | (2) INFORMATION FOR SEQ ID NO:41: |
| 814 | (43) INFORMATION FOR SEQ ID NO: 42: | (2) INFORMATION FOR SEQ ID NO:42: |

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/08/978,636*

DATE: 11/08/98
TIME: 17:43:00

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Original Text

(C)CLASSIFICATION:Not Yet Known

| Line | Error |
|------|----------------------|
| 38 | Wrong Classification |

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SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/08/978,636

DATE: 11/08/98
TIME: 17:43:00

INPUT SET: S29661.raw

APPLICATION NUMBER
FILING DATE
PRIOR APPLICATION DATA

SEQUENCE CORRECTION REPORT
PATENT APPLICATION *US/08/978,636*DATE: 11/08/98
TIME: 17:43:00*INPUT SET: S29661.raw*

| Line | Original Text | Corrected Text |
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